

Screening Site Inspection Final Report for

A. E. Staley Manufacturing Company ILD 005 104 781

May 19, 1993

B&V Waste Science and Technology Corp. 101 North Wacker Drive Suite 1100 Chicago, Illinois 60606

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### 1.0 Introduction

On August 7, 1991, B&V Waste Science and Technology Corp. was authorized by approval of the work plan by the U.S. Environmental Protection Agency (USEPA) Region V, to conduct a screening site inspection (SSI) of the A. E. Staley Manufacturing Company (Staley) landfill in Macon County, Illinois.

The site was initially placed on the Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) in August 1990 as a result of a request for discovery action initiated by the Illinois Environmental Protection Agency (IEPA).

The site received its initial Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) evaluation in the form of a preliminary assessment (PA) report completed by Sheila Murphy, IEPA, on July 19, 1990. The sampling portion of the SSI was conducted on January 7, 1992, when a field team collected three surface water and five soil samples.

The purposes of the SSI have been stated by USEPA in a directive outlining pre-remedial program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS (Hazard Ranking System) score, 2) establish priorities among sites most likely to qualify for the NPL (National Priorities List), and 3) identify the most critical data requirements for the listing [expanded] SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned) [currently designated SEA (site evaluation accomplished)], or carried forward as an NPL listing candidate. A listing [expanded] SI will not automatically be done on these sites. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act)... Sites that are designated NFRAP [SEA] or deferred to other statutes are not candidates for a listing [expanded] SI.

The listing [expanded] SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development.

## 2.0 Site Background

### 2.1 Introduction

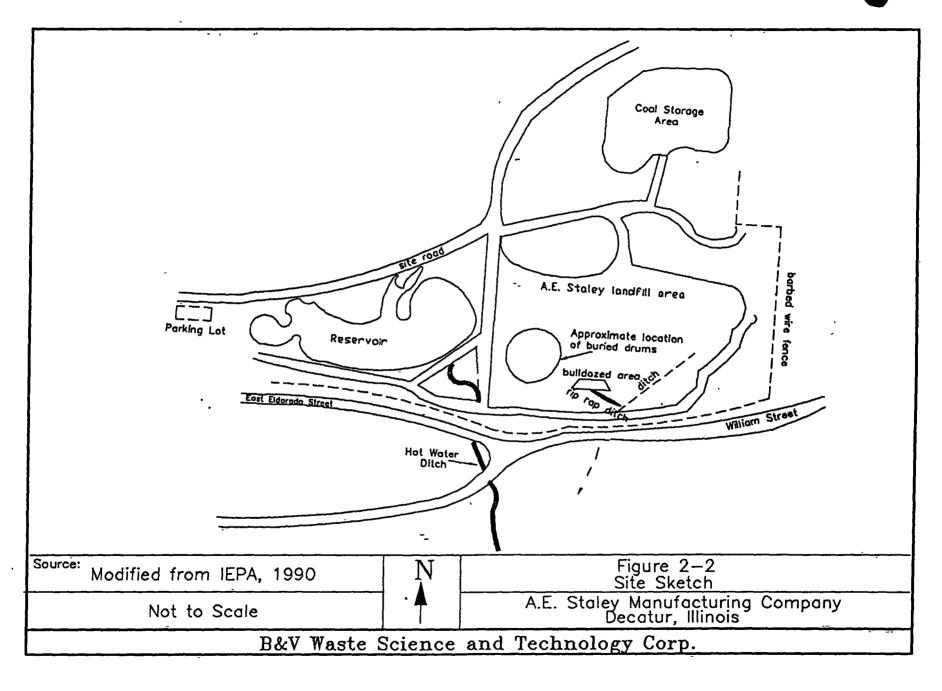
This section includes information obtained over the course of the SSI and previous activities involving this site.

# 2.2 Site Description

The A. E. Staley Manufacturing Company (Staley) is at 2200 East Eldorado Street, Decatur, Illinois. The portion of the Staley property that was used as a landfill is the subject of this SSI. The landfill is located north of William Street Road (Illinois State Route 105) in the southeast quarter of the southwest quarter of Section 7, and the northeast quarter of the northwest quarter of Section 18, and part of the northwest quarter of the northeast quarter of Section 18, both sections in Township 16 North, Range 3 East of the Third Principal Meridian, Macon County, Illinois. Figure 2-1 presents the general site location. Figure 2-2 shows the general site layout.

The landfill site occupies approximately forty acres of the 2,100-acre Staley facility complex. The area is generally open and clear of large trees and brush. The majority of the ground surface is sparsely covered with grass and weeds. The landfill surface is relatively flat in the center, sloping gently along the perimeter to the south, west, and east. A southwesterly flowing ditch drains surface water runoff from the east side of the landfill. A "hot water ditch," which channels non-contact cooling water from the Staley plant to Lake Decatur, is located adjacent to the southwest corner of the landfill. Outflow from a Staley-owned reservoir west of the landfill flows southeast through the hot water ditch, eventually draining into Lake Decatur.

Portions of the south central area of the landfill have been regraded because of surface water erosion. An abandoned coal storage area borders the landfill to the north. Residential areas border the landfill to the east and are separated from the Staley facility by a chain link fence. William Street (Illinois State Route 105) borders



in the onsite landfill. The landfill was used for disposal of general plant and process waste from the Staley facility. Staley is a major corn refiner, producing sweeteners, starches, ethanol, animal feeds, food ingredients, and corn oil. Table 2-1 summarizes the potentially hazardous substances that could be contained within the solid residue.

Mercury bearing waste was reportedly generated by Staley operations (IEPA, 1985b). This waste is described as "mercury lunchroom waste" (IEPA, 1985b). Specific information (quantities, production, storage) regarding mercury bearing waste is not available.

The ownership history of the Staley site is summarized below:

Owner	Date(s) of Ownership
Tate & Lyle, PLC	1988 - Present
Staley Corporation	1906 - 1988
Pratt Cereal Oil Co.	Before 1906
Wellington Starch Works	Before 1906

Apparently, the site has been used to manufacture food ingredients and additives since the late 1800s.

## 2.3.2 Summary of Onsite Environmental Work

No onsite environmental work, such as remedial projects or removal actions are known to have been performed on the landfill site. Regrading of the landfill was done to repair surface erosion along the southern portion of the site before the site reconnaissance.

In 1986, the IEPA informed Staley it was in apparent violation of 35 Illinois Administrative Code 722.111, in part for lack of a hazardous waste determination for the fatty alcohol residue in drums buried in the Staley landfill (IEPA, 1986a).

The IEPA acknowledged resolution of the apparent violation in August 1986 (IEPA, 1986b).

On June 29, 1990, IEPA conducted a preliminary assessment of the site. The assessment focused on the closure of the onsite landfill. The constituents of the process waste are believed to present a potential hazard to groundwater and surface water.

# 2.4 Applicability of Other Statutes

The landfill is listed in the Illinois CERCLIS list (USEPA, 1992a). Staley's Decatur facility is listed as a RCRA notifier (USEPA, 1992b); however, the listing is for the entire facility and does not specifically cite the landfill.

Staley holds a current National Pollutant Discharge Elimination System (NPDES) permit to discharge non-contact cooling water to Lake Decatur through the hot water ditch (IEPA, 1989). The NPDES permit does not cover landfill operations, but the hot water ditch is adjacent to the landfill.

## 3.0 Site Inspection Activities and Analytical Results

### 3.1 Introduction

This section outlines procedures used and observations made during the SSI conducted at the Staley site. Sampling activities were conducted in accordance with the Quality Assurance Project Plan (QAPjP), dated September 27, 1991.

Appendix B presents the USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13).

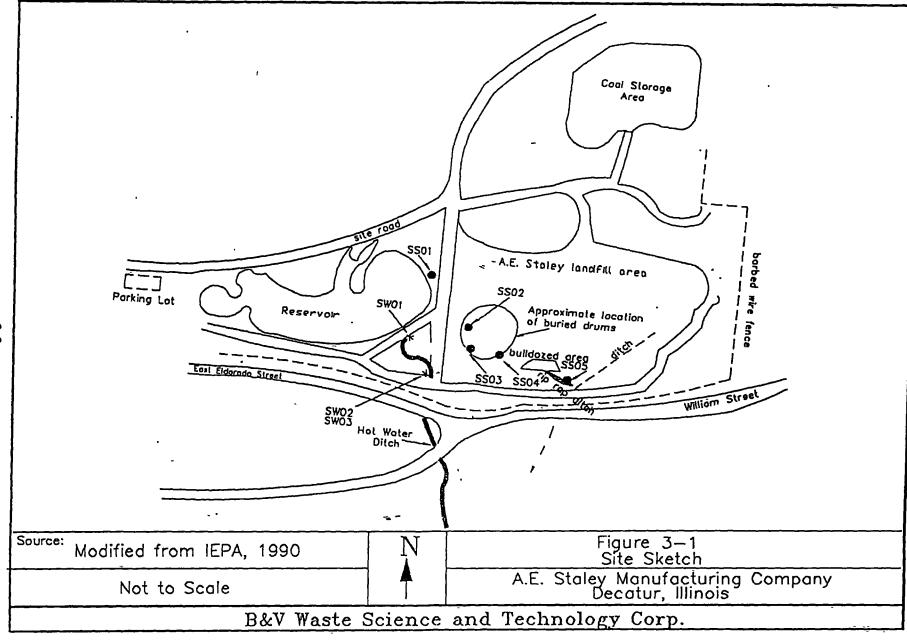
Samples collected for this SSI were analyzed for organic and inorganic substances contained on the USEPA Target Compound List (TCL) and Target Analyte List (TAL) by USEPA contract laboratory program (CLP) participant laboratories. Appendix C presents the TCL and TAL. Appendix D presents a summary of all analytical data generated by SSI sampling. Appendix E contains photographs of the site and sample locations.

### 3.2 Site Reconnaissance

On September 17, 1991, a site reconnaissance of the Staley landfill was conducted. This visit included a visual inspection of the site to determine the site status, delineate facility activities, identify potential sampling locations, and to determine any health or safety hazards.

# 3.3 Site Representative Interview

Lauren W. Laabs, environmental science manager; Edward E. Salch, safety and environmental engineer; and Robert H. Marshall, environmental engineer, were interviewed by the reconnaissance team on September 17, 1991, at the Staley site in Decatur, Illinois. The reconnaissance team discussed the purpose of the SSI with Staley representatives, and gathered site-specific information.



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# 3.6 Analytical Results

Observed releases of TAL and TCL substances were detected in samples SW03, SS02, and SS05. Pesticide data was determined to be unusable by the USEPA, and is not addressed in this report. Figure 3-1 presents sample locations.

Sample SW03 is located in the hot water ditch at the southwestern corner of the landfill. SW03 documents the presence of arsenic in surface water adjacent to the landfill in excess of upstream background levels.

Two soil samples (SS02 and SS05) established observed releases. SS02 was collected in the western part of the landfill area where drums were allegedly buried. SS05 was collected on the eastern side of the landfill, at a point close to the ditch that captures surface runoff from that side of the landfill. With the exception of two compounds, both samples contained the same suite of semi-volatile organic compounds and calcium. Specific compounds are listed in the next section.

## 3.7 Key Samples

"Key samples" are those samples containing substances in sufficient concentration to document an observed release. Table 3-2 identifies key samples taken during the SSI.

### 4.0 Characterization of Sources

### 4.1 Introduction

Analytical data generated in this SSI document the release of TCL and TAL substances to surface water and soil. Using the historical information on the experiment which produced the drummed wastes and information obtained during field investigation, three potential sources can be identified: the landfill cell areas, the drums which received the experiment wastes, and the cover soil found to contain low concentrations of CERCLA-regulated substances.

#### 4.2 The Landfill Cell Areas/Drums

#### 4.2.1 Description

It is assumed that landfill construction proceeded by the progressive excavation of pits or "cells" which were systematically filled with plant wastes with each days refuse covered by a thin layer of soil. Use of the area as landfill began in 1961 and continued into the early to mid-1980s; closure occurred in 1987. No records of the nature of materials placed in the landfill are known to the ARCS contractor except a 1987 analysis of a fuel waste reported to contain 2.6 ppb mercury.

#### 4.2.2 Waste Characteristics

The possible identification of the potential wastes within the landfill cells may be derived from three sources of information. The local union officials claimed to know certain chemicals were dumped in the landfill and these are included in the list in Table 2-1. Staley reports to IEPA document the use of Methanol and Butanol [a trade name for n-butyl alcohol] in the surfactant experiments. The analyses of two of the soil samples from the landfill cover showed the presence of low concentrations of nine semivolatile organic compounds.

A potential exists for substances detected in onsite soil samples to leach through subsurface soils to groundwater. The surface water and air pathways may be affected, if soil bound substances are entrained by overland flow or wind action and transported to nearby areas.

### 4.4 Other Potential Sources Within One Mile

A review of USEPA CERCLIS and RCRA lists revealed two other potential sources of release within a one mile radius of the landfill site (USEPA, 1992a; 1992b):

- A. E. Staley Manufacturing Company
   2200 Eldorado Street
   Decatur, Illinois
   RE: underground hexane storage tank
- Archer Daniels Midland Company
   Corn Sweeteners Division Alcohol Plant
   4666 Faries Parkway
   Decatur, Illinois

Review of available records and documentation regarding waste disposal practices at Staley indicate a potential source area may exist near the landfill area. Steel drums containing process waste were temporarily stored in a gravel parking lot on Staley property west of the reservoir and landfill. Of the 504 drums, 208 were landfilled in 1985, and the remainder were shipped offsite to the Acme Company in Chicago, Illinois, for reconditioning (IEPA, 1985a). No releases from the stored drums have been documented; however, their two year presence near the landfill establishes a potential source for many of the same substances detected in the landfill soil samples. Figure 2-2 shows the approximate location of the steel drum burial area and the gravel parking lot where the drums were stored.

# 5.0 Discussion of Migration Pathways

### 5.1 Introduction

This section includes information useful in analyzing the potential impact of constituents found at the Staley site on the four migration pathways (groundwater, surface water, air, and soil).

### 5.2 Groundwater

Groundwater samples were not collected because of the absence of monitoring wells at the Staley landfill and the lack of private wells in the immediate vicinity.

A limited amount of near-site geologic data is available. An underground storage tank investigation performed by Ground Water Technology, Inc., (1991) took place on Staley property nearly one mile west of the landfill site. Boring logs of monitoring wells installed during this investigation indicate a complex assemblage of clay, sand, and silt units to a depth of 23 feet. Lithological unit descriptions in the logs suggest a large degree of lateral variability in sediments, over distances of less than one hundred feet.

The site is located on the upland adjacent to the Sangamon River Valley. Permeable sand and gravel units in this valley have a typical thickness of 15 to 40 feet and form a significant aquifer in Macon County (Bergstrom and others, 1976). On the upland, however, sand and gravel occur as discontinuous bodies usually less than 15 feet thick and separated by glacial till (Selkregg and Kempton, 1958; Bergstrom and others, 1976).

Berg and others (1984) rank aquifer susceptibility to potential contaminant infiltration near the site as low, because of at least 20 feet of relatively impermeable silty and clayey material at the surface.

Table 5-1 presents the population within a four mile radius believed to use private wells. The approximate target population for each distance ring was estimated by counting the number of structures within each distance ring on

Table 5-2 estimates the population within fifteen downstream miles of the Staley facility served by a public water supply.

Table 5-2 Public Water Supply Sources Within Fifteen Downstream Miles of the Staley Facility							
Distance/Direction Location of Population Source from Site Source Name Source Served Type							
Approximately four miles southwest of the site.	Decatur Public Water Supply	South end of Lake Decatur, near Dam	26,400	Surface Water			

Lake Decatur, southeast of the landfill site, receives all runoff from near the landfill. Lake Decatur is a dammed reach of the southwesterly flowing Sangamon River. The city of Decatur maintains two surface water intakes on Lake Decatur to supply drinking water to their residents and those of Mt. Zion, Illinois (City of Decatur, 1991). One intake is upstream of the landfill's overland flow probable point of entry to Lake Decatur; the other is approximately four miles downstream, near the Lake Decatur dam. The downstream intake furnishes approximately eighty-five percent of the municipal water supply (City of Decatur, 1992a). The city of Decatur water supply system serves a population of 31,063 (City of Decatur, 1992b).

An observed release of arsenic to surface water is established in the hot water ditch near the landfill. At least 85 percent of the population served by Decatur's municipal water system are potential targets of the arsenic release.

No other public water supply source from surface water was identified within fifteen downstream miles of the landfill.

No critical habitats are known to exist within a four mile radius of the site (Illinois Department of Conservation, 1992). It is not known if critical habitats exist in or along the Sangamon River, between 4 and 15 miles downstream from the site.

#### 6.0 References

- Berg, R. C., and Kempton, J. P., 1988, "Stack Unit Mapping of Geologic Materials in Illinois to a Depth of 15 Meters," Illinois State Geological Survey, Circular 542.
- Berg, R. C., Kempton, J. P., and Cartwright, K., 1984, "Potential for Contamination of Shallow Aquifers in Illinois," Illinois State Geological Survey, Circular 532.
- Bergstrom, R. E., Piskin, K., and Follmer, L. R., 1976, Geology for Planning in the Springfield-Decatur Region, Illinois: Illinois State Geological Survey, Circular 547.
- City of Decatur, 1991, Jim Mayhugh, Water Production Manager, Decatur Water Resources, in personal communication to John Noyes, B&V Waste Science and Technology Corp., December 16.
- City of Decatur, 1992a, Jim Mayhugh, Water Production Manager, Decatur Water Resources, in personal communication to John Noyes, B&V Waste Science and Technology Corp., April 1.
- City of Decatur, 1992b, Josephine Ricks, Decatur Water Department, in personal communication to John Nøyes, B&V Waste Science and Technology Corp., April 1.
- Ground Water Technology, Inc., 1991, Subsurface Hexane Assessment for A. E. Staley Manufacturing Facility, Decatur, Illinois, January 11.
- Illinois Department of Conservation, 1992, Glen Kruse, Project Manager, in letter to John Noyes, B&V Waste Science and Technology Corp., July 2.
- Illinois Environmental Protection Agency (IEPA), 1985a, Richard Johnson, Field Operations Section, Division of Land Pollution Control, Central Region, in memorandum to Land Division File, LPC #1150150032-Macon County-Decatur/Staley-ILD005104781, November 15.
- IEPA, 1985b, RCRA Inspection Report for A. E. Staley Manufacturing Company Decatur, Illinois, USEPA ID. No. ILD005104781.
- IEPA, 1986a, Mark A. Haney, Manager, Facilities Compliance Unit, Division of Land Pollution Control, in compliance inquiry letter to Richard Dickinson, A. E. Staley Manufacturing Company, March 28.

# Appendix A

Site 4-Mile Radius Map and 15-Mile Surface Water Route Map

# Appendix F

Representative Well Logs

# Appendix B

USEPA Form 2070-13





# Site Inspection Report





### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

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# **SEPA**

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE MARKER

ILD 005104781

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WAS NOT OBSERVED.			
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III. TOTAL POPULATION POTENTIALLY AFFECTED:	590 (WITHIN 4 MILES)		
IV. COMMENTS			
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# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER DEMOGRAPHIC AND ENVIRONMENTAL

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ITU)	005104781

	PART 5 - WATER	, DEMOGRAPHIC	, AND ENV	IRONM	ENTAL DATA		1003,01	7 5 1
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IV. SURFACE WATER		<del></del>						
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V. DEMOGRAPHIC AND PROF	PERTY INFORMATION	· · · · · · · · · · · · · · · · · · ·						
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18-1 80								
1-2 240								
7-3 90								



## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - SAMPLE AND FIELD INFORMATION

	TEICATION
OI STATE	02 SITE NUMBER 005 104 781

II. SAMPLES TAKEN				
SAMPLE TYPE	0	1 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	STAND COTAMITED CATE
GROUNDWATER				,
SURFACE WATER		. 3	WADSWORTH   ALERT LASS, NOCTH CONTEN, OH	received
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AIR		•		
RUNOFF				
SPILL				
SOIL		5	SAME AS ABOVE	received
VEGETATION				
OTHER				
III. FIELD MEASURE	MENTS TAK	EN		
01 TYPE		02 COMMENTS		
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IV. PHOTOGRAPHS	AND MAPS			
OI TYPE & GROUND	C AERIAL		02 IN CUSTOOY OF USEPA FILES	
<b>,</b>	04 LOCATION	OF MAPS	Marie of organization or increases	
Z YES		A FILES		
E NO				
V. OTHER FIELD DA	IX COLLE	C I ED Issues warms	N ECONONI	
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KEDA FI	LES			
USEPA S	SI RE	PORT		
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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION

	IFICATION.
OI STATE	02 SITE NUMBER 005 104781
	1002 104 451

II. CURRENT OPERATOR (Provide of different from	m e wner!		OPERATOR'S PARENT COMPANY	(II ADDICADIA)		
TINAME		02 0+8 NUMBER	11 0+8 NUMBER			
TOTE & LYLE PLO	^_					
		04 SIC CODE	12 STREET ADDRESS IP O Box AFD # elc :		13 SIC CODE	
2200 E. ELDORADO	ST.	į.	ļ.		ļ	
DS CITY		07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
DECOTUR	IIL	62525	Ì	1 1		
8 YEARS OF OPERATION 09 NAME OF OWNER						
1988 to Present						
III. PREVIOUS OPERATOR(S) (Las most recons i	hrst provide or	ry i different from owner)	PREVIOUS OPERATORS' PARENT	COMPANIES #	800×C20441	
) NAME		02 D+B NUMBER	10 NAME		11 D+8 NUMBER	
STALEY CORPORATIO	<b>7</b> 00		1.			
3 STREET ADDRESS IP O Box RFD # ore		04 SIC CODE	12 STREET ADDRESS (P O Box RFD + etc )	-	13 SIC COD€	
	_				<u> </u>	
S CITY	OG STATE	07 ZIP COOE	14 CITY	15 STATE	16 ZIP CODE	
	1				<u> </u>	
8 YEARS OF OPERATION 09 NAME OF OWNER	HT DURING TH	IS PERIOO				
85			10000		Contractor Contractor	
PRATT CEREAL O	3 C	02 D+B NUMBER	10 NAME		11 0+8 NUMBER	
	الله	IO4 SIC CODE	,		   13 SIC COO€	
3 STREET ADORESS (P O Box. AFO F arc )		UA SIC CODE	12 STREET ADORESS (P O Box RFD P etc.)		13 50 0000	
	100 EV 475	TO7 ZIP CODE	14 CITY	118 67476	16 ZIP CODE	
D5 CITY	0031210	107 214 CODE		1331215	116 25 400	
08 YEARS OF OPERATION 09 NAME OF OWNE	R OLIBING T	HIS PERIOD			<u> </u>	
Nyknomy	T DOTATO	no remov				
DI NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER	
WELLINGTON STARCE	-1 later				1	
OJ STREET ADDRESS (P O Box RFD P otc.)		04 SIC CODE	12 STREET ADDRESS IP O Box AFO # etc 1		13 SIC CODE	
			1			
05 CITY	O6 STAT	E 07 ZIP CODE	14 CITY	15 STAT	E 16 ZIP CODE	
	ļ.					
08 YEARS OF OPERATION 09 NAME OF OWNE	R DURING T	HIS PERIOD			<del></del>	
UNKNOUN						
IV. SOURCES OF INFORMATION (CAR BOOK	Cálic pelerence	s, e.g., state ties. samore and	ryse reports)	1		
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USERA MUES / SSI	- VET	CKA				
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# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION
O1 STATE O2 SITE NUMBER
ILD 005104781

. ON-SITE GENERATOR						
INAME	, l	02 0+8 NUMBER				
STREET ACCRESS IP O BOX AFO P. DIC		04 SIC COD€	1			
s ary	G6 STATE	O7 ZIP CODE	-			
II. OFF-SITE GENERATOR(S)				<del></del>		
1 NAME		02 D+8 NUMBER	01 NAME		02	138MUH E+0
3 STREET ACCRESS IP O Bos, APO F ore 1		04 SIC CCOE	03 STREET ADDRESS IP 0 Box	AFD # HC	<u>,                                     </u>	04 SC CCCE
S CITY	CG STATE	07 ZIP COOE	05 C/TY	<del></del>	OSTATE O	7 DP CCC€
11 NAME	!	02 D+8 NUMBER	G1 NAME	<del></del>	1 0	2 0 + 3 NUMBER
STREET ADORESS (P O Box. AFD # etc.)		04 SIC CODE	03 STREET ADCRESS IP 0 to	e 8607 HC	1	04 SC CCCE
05 CITY	CO STATE	07 ZIP COOE	OS CITY		OB STATE	T Z'P CSC€
IV. TRANSPORTER(S)		<u> </u>		·	<u> </u>	· · · · · · · · · · · · · · · · · · ·
DI NAME		02 D+B NUMBER	01 NAME		(	02 D+3 YUM6EP
D3 STREET ACCRESS IP O Bas. AFO / orc )		04 SIC CODE	03 STREET ADDRESS (# 0 &	s AFO F HC)		C4 S/C CCCE
05 CITY	C6 STAT	E 07 ZIP CODE	05 CITY .	) 	06 STATE	07 ZIP COGE
01 NAME		02 D+B NUMBER	01 NAME	<del></del>		02 O+B 4UM8E R
03 STREET ADDRESS IP O Box AFD # etc 1	·	04 SXC CODE	03 STREET ADDRESS (P 0 8	as AFO s sic i		04 SXC CCCE
05 CITY	C8 STAT	TE 07 ZIP CODE	05 СПҮ		OS STATE	07 ZP CGCE
V. SOURCES OF INFORMATION ICE.	socce alvanca	a e g state thes sample anen	P (10041)			<u> </u>
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### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I.	ראשמו	TEKATION
٥1	STATE	02 SITE MANGER
1	LD	184401200

PAST RESPONSE ACTIVITIES		
01 CL A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 OATE	OJ AGENCY
01 G 8 TEMPCRARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 0ATE	O3 AGENCY
01 CL C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	O3 AGENCY
01 C D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 C E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	O3 AGENCY
04 DESCRIPTION		03 AGENCY
WASTE . DRUMS WAS DECONTED & COL	LECTED TO PSILCA	TR. DECONTED DOWNS LONDINED
01 O G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	O2 DATE	03 AGENCY
OA DESCRIPTION		03 AGENCY
PROCESS WASTE DECAMED DRIMS CONTON	s reciouse said	, LOWOSTUED ON SITE
01 CI I. IN STU CHEMICAL TREATMENT 04 DESCRIPTION	OZ DATĘ	03 AGENCY
01 C J IN SITU BIOLOGICAL TREATMENT	<del></del>	<u> </u>
01 C J IN STU EXOLOGICAL TREATMENT 04 DESCRIPTION	- 02 DATE	03 AGENCY (
01 () K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 G L. ENCAPSULATION 04 DESCRIPTION	O2 DATE	03 AGENCY
01 C M EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	O3 AGENCY
01 G N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
01 [] P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	O2 DATE	03 AGENCY
01 O. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	O2 DATE	O3 AGENCY



# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENT	I. IDENTIFICATION				
OI STATE	184 401 200				

II. ENFORCEMENT INFORMATION DI PAST REGULATORY/ENFORCEMENT ACTION THES EN 02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION III. SOURCES OF INFORMATION (CAN EMPER PRINTERS OF A SING HOLE SAFON MAYSER, PRODUIT

# APPENDIX C

A. E. Staley

Target Compound List and Target Analyte List

## Target Compound List

### Volatiles

Chloromethane 1,2-Dichloropropane
Bromomethane Cis-1,3-Dichloropropane
Vinyl Chloride Trichloroethene

Chloroethane Dibromochloromethane
Methylene Chloride 1,1,2-Trichloroethane

Acetone Benzene

Carbon Disulfide trans-1,3-Dichloropropane 1,1-Dichloroethene Bromoform

1,1-Dichloroethane 4-Methyl-2-pentanone

1,2-Dichloroethene (total) 4-Methyl-2-pentanone

Chloroform Tetrachloroethene

1,2-Dichloroethane Toluene

2-Butanone 1,1,2,2-Tetrachloroethane

1,1,1-Trichloroethane Chlorobenzene Carbon Tetrachloride Ethyl benzene

Bromodichloromethane Styrene

Xylenes (total)

Source: Target Compound List for water and soil with low or medium levels

of volatile and semivolatile organic contaminants, as shown in the

Quality Assurance Project Plan for Region V Superfund Site

Assessment Program, BVWST, September 27, 1991.

## Target Compound List (continued)

## Pesticide/PCB

alpha-BHC **4.4-DDT** Methoxychlor beta-BHC Endrin ketone delta-BHC gamma-BHC (Lindane) Endrin aldehyde alpha-chlordane Heptachlor gamma-chlordane Aldrin Heptachlor epoxide Toxaphene Aroclor-1016 Endosulfan I Aroclor-1221 Dieldrin 4,4-DDE Aroclor-1232 Aroclor-1242 Endrin Aroclor-1248 Endosulfan II Aroclor-1254 4.4-DDD Endosulfan sulfate Aroclor-1260

Source:

Target Compound List for water and soil containing less than high concentrations of pesticides/aroclors, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWST, September 27, 1991.

### Target Analyte List

Magnesium Aluminum Manganese Antimony Arsenic Mercury Nickel Barium Beryllium Potassium Cadmium Selenium Silver Calcium Sodium Chromium Thallium Cobalt Vanadium Copper Zinc Iron Cyanide Lead

Source:

Target Analyte List in the Quality Assurance Project Plan for

Region V Superfund Site Assessment Program, BVWST, September

27, 1991.

# Appendix D

Analytical Results

Data Qualifiers					
Analysis	Qualifier	Definition			
All	Е	Reported value is estimated because of the presence of interference			
	J	Estimated value			
	N	Spiked sample recovery not within control limits			
	U	Analyzed for but not detected			
	R	Unusable data (Compound/analyte may or may not be present)			
Organic Analysis	В	Reported value was obtained from a reading that was less than the Contract Required Quantitation Limit (CRQL) but greater than or equal to the Instrument Detection Limit (IDL)			
Inorganic Analysis	В	Reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL)			
	D	Compound identified in an anlysis at a secondary dilution factor			
	W	Post-digestion spike for Furnace AA analysis is out of control limits (85% -115%), while sample absorbance is less than 50% of spike absorbance			
	*	Duplicate analysis not within control limits			

# Semivolatile Organic Analytical Results for Surface Soil A.E. Staley Manufacturing Company

	Sample Location and Number						
		Concentrations in ug/kg					
1	SS01 (1)						
Semivolatile Compound	·- <u>·</u>						
Phenol	410 U	800 Ū	420 U	390 U	450 U		
bis(2-Chloroethyl)Ether	410 U	800 U	420 U	390 U	450 U		
2-Chlorophenol	410 U	800 U	420 U	390 U	450 U		
1,3-Dichlorobenzene	410 U	800 U	420 U	390 Ú	450 U		
1,4-Dichlorobenzene	410 U	800 U	420 U	390 U	450 U		
1,2—Dichlorobenzene	410 U	800 U	- 420 U	390 U	450 U		
2-Methylphenol	410 U	- 800 U	420 U	390 U	450 U		
2,2'-Oxybis(1-Chloropropane)	410 U	- 800 U	420 U	390 U	450 UJ		
4-Methylphenol	410 U	800 U	420 U	390 U	24 J		
n-Nitroso-di-n-propylamine	410 U	800 Ü	420 U	390 U	450 U		
Hexachloroethane	410 U	800 U	420 U	390 U	450 U		
Nitrobenzene	410 U	800 U	420 U	390 U	450 U		
Isophorone	410 U	800 U	420 U	390 U	450 U		
2-Nitrophenol	410 U	800 U	420 U	390 U	450 U		
2,4-Dimethylphenol	410 U	800 U	420 U	390 U	450 U		
bis(2-Chloroethoxy)Methane	410 U_	800 U	420 U	390 U	450 U		
2,4-Dichlorophenol	410 U	800 U	420 U	390 U	450 U		
1,2,4~Trichlorobenzene	410 Ū	800 Ū	420 U	390 U	450 U		
Naphthalene	410 U	130 J	420 Ŭ	390 U	130 J		
4-Chloroaniline	410 U	800 U	420 U	390 U	450 U		
Hexachlorobutadiene	410 U	800 U	420 U	390 U	450 U		
4-Chloro-3-Methylphenol	410 U	- 800 U	420 U	390 U	450 U		
2-Methylnaphthalene	39 J	200 J	420 U	23 J	93 J		
Hexachlorocyclopentadiene	410 UJ	800 UJ	420 UJ	390 UJ	450 UJ		
2,4,6-Trichlorophenol	410 U	800 U	420 U	390 U	450 U		
2,4,5 - Trichlorophenol	1000 U	2000 U	1000 U	940 U	1100 U		
2-Chloronaphthalene	410 U	800 U	420 U	390 U	450 U		
2-Nitroaniline	1000 U	2000 U	1000 U	940 U	1100 U		
Dimethyl Phthalate	410 U	800 U	420 U	390 U	450 U		
Acenaphthylene	410 U	42 J	420 U	390 Ū	210 J		

# Semivolatile Organic Analytical Results for Surface Soil A.E. Staley Manufacturing Company

	Sample Location and Number Concentrations in ug/kg					
	SS01 (1)	SS02	SS03	SS04	SS05	
Semivolatile Compound						
Benzo(a)Pyrene	140 J	1600	420 U	52 J	980	
Indeno(1,2,3-cd)Pyrene	86 J	480 J	420 U	26 J	470	
Dibenzo(a,h)Anthraœne	410 U	130 J	420 U	390 U	150 J	
Benzo(g,h,i)Perylene	90 J	440 J	420 U	28 J	410 J	

Notes: 1) Background Sample

# Inorganic Analytical Results for Surface Soil A.E. Staley Manufacturing Company

	Sample Locations and Number						
Metals and		Concentrations in ug/kg					
Cyanide	SS01 (1)	SS02	SS03	SS04	SS05		
		<u></u>					
Aluminum	11,900.00	7,640.00	22,800.00	9,730.00	14,600.00		
Antimony	7.00 UJN	11.20 BNJ	6.40 UJN	6.10 UJN	6.90 JBN		
Arsenic	5.90	10.90	12.00	3.50 J	8.90 J		
Barium	134.00	93.70	169.00	92.80	166.00		
Beryllium	0.88 B	- 0.89 B	0.71 B	0.72 B	0.77 <u>B</u>		
Cadmium	0.78 U	0.83 U	0.71 U	0.67 U	0.72 U		
Calcium	10,700.00 *	33,600.00 *	3,170.00 *	30,300.00 *	54,300.00 *		
Chrom ium	15.20	13.10	23.20	14.40	21.80		
Cobalt	10.50 B	5.50 B	13.00	5.50 B	10.10 B		
Copper	21.60 *	34.80 *	25.80 *	17.40 *	33.00 *		
Iron	23,600.00	22,600.00	34,600.00	18,300.00	29,900.00		
Lead	31.90	66.20	16.00	12.10	26.50		
Magnesium	2,360.00 J*	11,000.00 J*	4,390.00 J*	13,700.00 J*	20,500.00 J*		
Manganese	822.00	311.00	568.00	284.00	537.00		
Mercury	0.13 U	0.11 U	0.12 U	0.09 U	0.13 U		
Nickel	17.70	20.20	24.60	16.00	30.90		
Potassium	1,960.00 JE	1,530.00 JE	2,180.00 JE	1,830.00 JE	3,160.00 JE		
Selenium	0.65 JBW	0.98 JB	0.49 UJW	0.47 UJW	0.76 JB		
Silver	1.00 UJN	0.11 UJN	0.94 UJN	0.90 UJN	0.96 UJN		
Sodium	613.00 JBE	405.00 JBE	123.00 JBE	510.00 JBE	491.00 JBE		
Thallium	0.62 B	0.71 B	0.52 B	0.40 B	<u>0.64 Ĵ</u> BW		
Vanadium	33.50	30.00	56.30	23.00	30.90		
Zinc	186.00	186.00	96.20	78.00	122.00		
Cyanide	0.99 *	1.30 U*	1.10 U*	1.40 U*	1.00 U*		

Notes: 1) Background Sample

# Semivolatile Organic Analytical Results for Surface Water A.E. Staley Manufacturing Company

	Sample Location and Number				
	Concentrations in ug/L				
	SW01 (1)	SW02	SW03		
Semivolatile Compound					
Phenol	10 U	10 U	10 U		
bis(2-Chloroethyl)Ether	10 U	10 U	10 U		
2-Chlorophenol	10 U	10 U	10 U		
1,3 – Dichlorobenzene	10 U	10 U	10 U		
1,4-Dichlorobenzene	10 U	10 U	10 U		
1,2-Dichlorobenzene	10 U	10 U	10 U		
2-Methylphenol	10 U	10 U	10 U		
2,2'-Oxybis(1-Chloropropane)	10 U	10 U	10 U		
4-Methylphenol	10 U	10 U	10 U 10 U		
n-Nitroso-di-n-propylamine	10 U	10 U	10 U		
Hexachloroethane Nitrobenzene	10 U 10 U	10 U 10 U	10 U		
	10 U	10 U	10 U		
Isophorone	10 U	10 U	10 U		
2-Nitrophenol	10 U	10 U	10 U		
2,4—Dimethylphenol	10 U	10 U	10 U		
bis(2-Chloroethoxy)Methane		10 U	10 U		
2,4-Dichlorophenol	10 U 10 U	10 U	10 U		
1,2,4—Trichlorobenzene	10 U	10 U	10 U		
Naphthalene 4-Chloroaniline	10 U	10 U	10 U		
Hexachlorobutadiene	10 U	10 U	' 10 U		
4-Chloro-3-Methylphenol	10 U	10 U	10 U		
2-Methylnaphthalene	10 U	10 U	10 U		
Hexachlorocyclopentadiene	10 UJ	10 UJ	10 UJ		
2,4,6-Trichlorophenol	10 U	10 U	10 U		
2,4,5 - Trichlorophenol	25 U	25 U	25 U		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethyl Phthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dintrotoluene	10 U	10 U	10 U		
3-Nitroaniline	25 U	25 U	25 U		
Acenaphthene	10 U	10 U	10 U		
2,4-Dinitrophenol	25 UJ	25 UJ	25 UJ		
4-Nitrophenol	25 UJ	25 UJ	25 UJ		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl Phenyl Ether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U		
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-Methylphenol	25 UJ	25 UJ	25 UJ		

## Pesticide and PCB Analytical Results for Surface Water A.E. Staley Manufacturing Company

	Sample Location and Number					
	Cor	Concentrations in ug/L				
ĺ	SW01 (1)	SW02	SW03			
Pesticide/PCB						
Alpha-BHC	0.05 U	0.05 U	0.05 U			
Beta-BHC	0.05 U	0.05 U	0.05 U			
Delta-BHC	0.05 U	0.05 U	0.05 Ü			
Gamma – BHC (Lindane)	0.05 U	0.05 U	0.05 Ü			
Heptachlor	0.05 U	0.05 U	0.05 U			
Aldrin	0.05 U	0.05 U	0.05 U			
Heptachlor Epoxide	0.05 U	0.05 U	0.05 U			
Endosulfan I	0:05 U	0:05 U	0.05 U			
Dieldrin	0.10 U	0.10 U	0.10 Ü			
4,4'-DDE	0.10 U	0.10 U	0.10 U			
Endrin	0.10 U	0.10 U	0.10 U			
Endosulfan II	0:10 U	0.10 U	0.10 U			
4,4'-DDD	- 0.10 U	0.10 U	0.10 U			
Endosulfan Sulfate	0.10 U	0.10 U	0.10.U			
4,4'-DDT	0.10 U	0.10 U	0.10 U			
Methoxychlor	0.50 U	0.50 U	0.50 U			
Endrin Ketone	0.10 U	0.10 U	0.10 U			
Endrin Aldehyde	0.10 U	0.10 U	0.10 U			
Alpha – Chlordane	0.05 U	0.05 U	0.05 U			
Gamma – Chlordane	0.05 U	0.05 <sup>-</sup> U	0.05 U			
Toxaphene	5.00 U	5.00 U	5.00 U			
Aroclor-1016	1.00 U	1.00 U	1.00 U			
Aroclor-1221	2.00 U	2.00 U	2.00 U			
Aroclor-1232	1.00 U	1.00 U	1.00 U			
Aroclor-1242	1.00 U	1.00 U	1.00 U			
Aroclor-1248	1.00 U	1.00 U	1.00 U			
Aroclor-1254	1.00 U	1.00 U	1.00 U			
Aroclor - 1260	1.00 U	1.00 U	1.00 U			

Notes: 1) Background Sample

### Semivolatile Organic Analytical Results for Surface Soil and Water Tentatively Identified Compounds A.E. Staley Manufacturing Company

		Estimated
Compound Name	Retention Time	Concentration (ug/kg or ug/L)
	Sample SS01	
Aldol Condensation Product	3.4	18,000 U
Unknown .	3.7	130 U
Unknown	4.8	190 U
Unknown	5.5	300 J
Ethanol, 2-(2-ethoxyethoxy)-	5.6	200 U
Unknown	6.4	820 J
Unknown Acid	11.6	160 J
Unknown Hydrocarbon	143	130 J
Unknown Hydrocarbon	22.5	140 J
Unknown Hydrocarbon	25.0	150 Ј
Unknown	25.0	78 J
Unknown	252	86 J
Unknown	25.8	190 J
Unknown	26.4	300 J
Unknown	27.2	170 J
Unknown	27.6	96 J
	Sample SS02	_
Aldol Condensatin Product	3.3	19,000 U
Unknwn	6.4	, 720 Ј
Unknown Hydrocarbon	14.3	480 J
Unknown Polyaromatic Hydrocarbon	17.0	260 J
Unknown Polyaromatic Hydrocarbon	19.1	480 J
Unknown Polyaromatic Hydrocarbon	20.4	560 J
Unknown Polyaromatic Hydrocarbon	20.5	540 J
Unknown Polyaromatic Hydrocarbon	23.3	460 J
Unknown Polyaromatic Hydrocarbon	23.7	1,100 J
Unknown Polyaromatic Hydrocarbon	23.9	460 J
Unknown	25.0	360 J
Unknown	25.2	420 J
Unknown	25.4	360 J
Unknown Polyaromatic Hydrocarbon	25.8	480 Ј
Unknown	25.9	260 Ј
Unknown	26.0	440 Ј
Unknown	26.4	600 J
Unknown	26.8	280 Ј
Unknown	27.0	260 Ј
Unknown	27.3	280 J

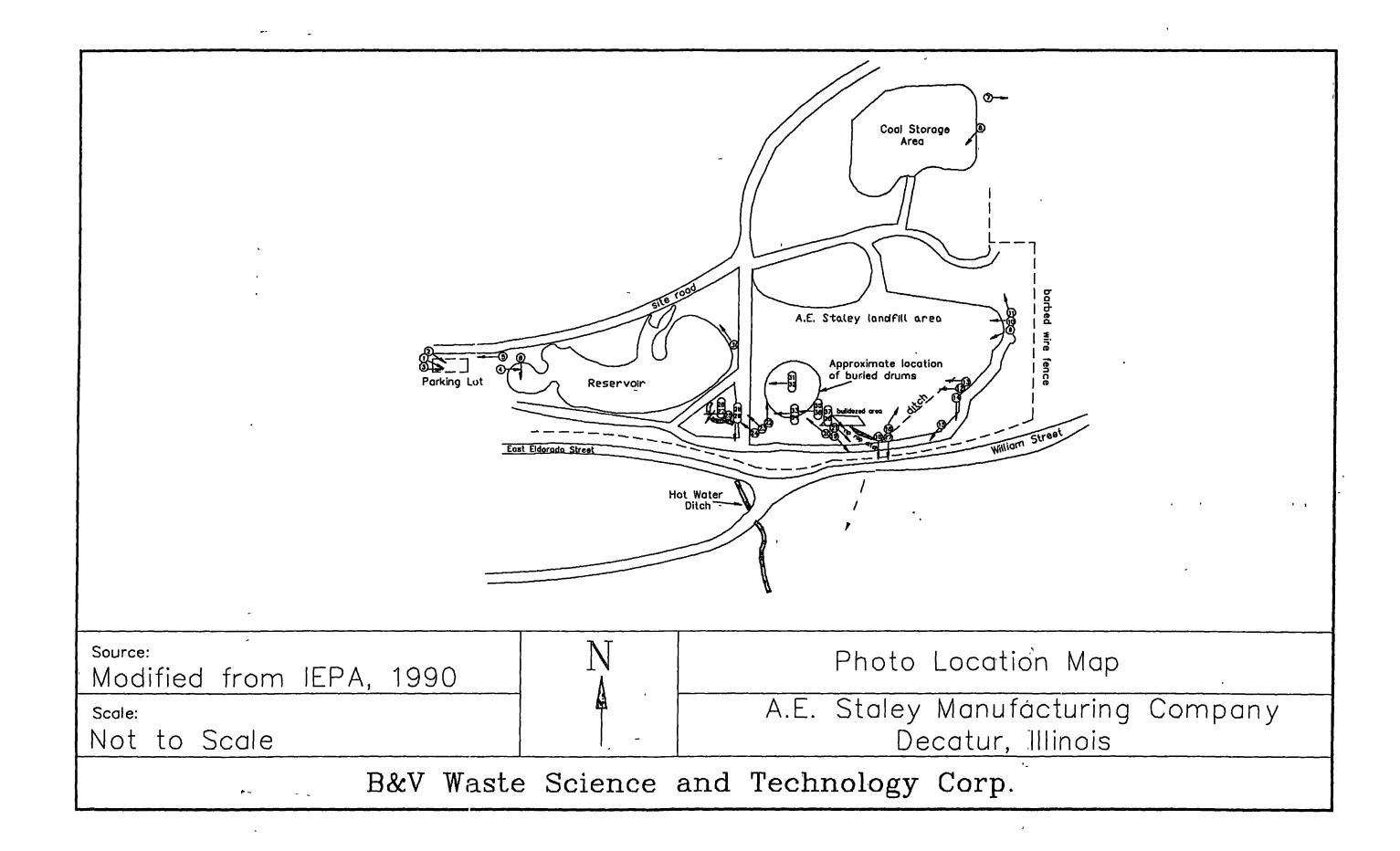
# Semivolatile Organic Analytical Results for Surface Soil and Water Tentatively Identified Compounds A.E. Staley Manufacturing Company

L	,	
		Estimated
Compound Name	Retention Time	Concentration (ug/kg or ug/L)
	Sample SS05	
Aldol Condensation Product	3.3	26,000 U
Unknown Acid	11.5	360 J
Unknown Hydrocarbon	14.2	340 J
Unknown Acid	16.7	780 J
Unknown	18.4	150 J
Unknown Polyaromatic Hydrocarbon	18.9	170 J
Unknown	20.0	220 J
Unknown	20.7	150 J
Unknown Hydrocarbon	22.4	150 J
Unknown	232	200 J
Unknown Polyaromatic Hydrocarbon	23.5	340 J
Unknown Hydrocarbon	24.9	260 J
Unknown	25.1	150 J
Unknown Polyaromatic Hydrocarbon	25.4	100 J
Unknown	25.7	160 J
Unknown	25.9	96 Ј
Unknown Hydrocarbon	26.0	110 J
Unknown	262	320 J
Unknown	263	ı 120 J
Unknown	26.6	180 J
	Sample SW01	
Ethanol, 2-(2-ethoxyethoxy)-	5.7	17 U
	Sample SW02	
Ethanol, 2-(2-ethoxyethoxy)-	5.7	17 U
	Sample SW03	
Ethanol, 2-(2-ethoxyethoxy)-	5.7	17 U

Appendix E

Photographs

A. E. Staley Manufacturing Company



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 01

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Southwest

Description: Lot where drums

are stored.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 02

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Southwest

Description: Lot where drums

are stored.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 03

Location/ILD #: ILD005104781

Direction of Photo: East

**Description:** South end of lot where drums are stored.



Date: 9-17-91

Time: Not Recorded

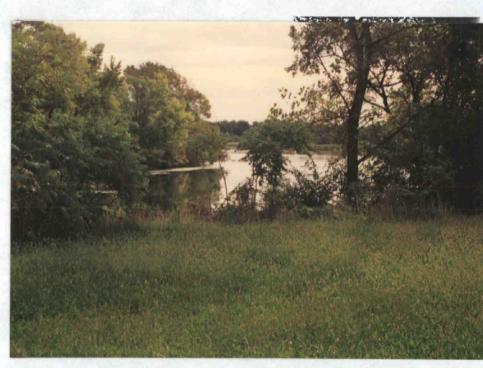
Photo Taken By: T. Moody

Photo Number: 04

Location/ILD #: ILD005104781

Direction of Photo: East

Description: View of reservoir at southern edge of drum lot.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 05

Location/ILD #: ILD005104781

Direction of Photo: West

Description: Staley property; tall building rising above trucks to left is the main

office.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 06

Location/ILD #: ILD005104781

Direction of Photo: South

Description: Edge of reservoir

(behind trees).



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 07

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: East

**Description:** Farm land northeast of property.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 08

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Southwest

Description: View of site.
Photo from berm around coal

storage area.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 09

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Southwest

Description: Standing at eastern portion of property; trees just northeast of landfill area.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 10

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: West

Description: East of property looking at trees and bare patches just north of landfill.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 11

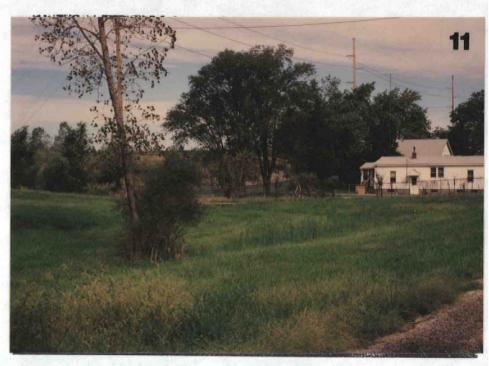
Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: North

Description: Standing northeast of landfill, residential area northeast of

property.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 12

Location/ILD #: A.E. Staley ILD005104781

Direction of Photo: West

Description: Standing at southeastern end of landfill. The landfill is on the other side of the trees.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 13

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: West

Description: Standing at southeastern end of landfill (landfill just beyond trees).



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 14

Location/ILD #: A.E. Staley ILD005104781

Direction of Photo: Southwest

Description: Fenced border near residential area (southwest of landfill).



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 15

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Southwest

Description: Southwest part of landfill on right (manhole in

background).



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 16

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Northeast

Description: Onsite ditch associated with manhole.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 17

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: South

Description: Onsite ditch flowing under Williams Street.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 18

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: South

Description: Onsite ditch flowing under Williams Street.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 19

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Southeast

Description: Bulldozed area on southeast portion of landfill, where erosion is said to have been a problem.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 20

Location/ILD #: A.E. Staley ILD005104781

Direction of Photo: Northwes

Description: Bulldozed area on southeast portion of landfill, where erosion is said to have been a problem.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 21

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Southeast

Description: Bulldozed area on southeast portion of landfill, where erosion is said to have been a problem.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 22

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Northwest

Description: Top of landfill.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 23

Location/ILD#: A.E. Staley

ILD005104781

Direction of Photo: Northwest

Description: Top of landfill.



Date: 9-17-91

Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 24

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Northwest

Description: View from landfill to Hot Water Ditch.



Time: Not Recorded

Photo Taken By: T. Moody

Photo Number: 25

Location/ILD #: ILD005104781

Direction of Photo: West

Description: Sampling station at head of Hot Water Ditch.



Date: 1-7-92

Time: 1030

Photo Taken By: R. Reints

Photo Number: 26

Location/ILD #: ILD005104781

Direction of Photo: North

Description: BVWST representatives collect samples upstream (north) of sampling

station.



Time: 1120

Photo Taken By: R. Reints

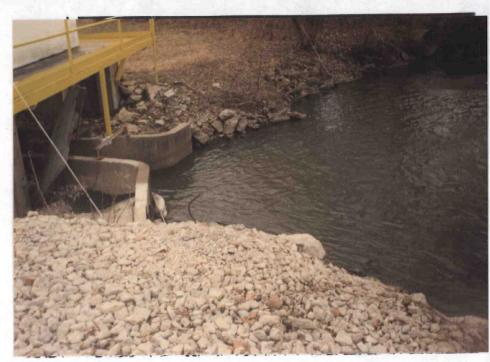
Photo Number: 27

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: North

Description: SWO1 sample location, nest to spillway.



Date: 1-7-92

Time: 1145

Photo Taken By: R. Reints

Photo Number: 28

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: North

Description: SWO2 sample location, just upstream from

the culvert.



Time: 1145

Photo Taken By: R. Reints

Photo Number: 29

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: North

**Description:** SWO3 sample location just upstream from

the culvert.



Date: 1-7-92

Time: 1300

Photo Taken By: R. Reints

Photo Number: 30

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: Southeast

Description: SSO1 sample



Time: 1315

Photo Taken By: R. Reints

Photo Number: 31

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: East

Description: SSO2 sample

location.



Date: 1-7-92

Time: 1315

Photo Taken By: R. Reints

Photo Number: 32

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: East

Description: SSO2 sample



Time: 1325

Photo Taken By: R. Reints

Photo Number: 33

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: East

Description: SSO3 sample

location.



Date: 1-7-92

Time: 1325

Photo Taken By: R. Reints

Photo Number: 34

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: East

Description: SSO3 sample



Time: 1330

Photo Taken By: R. Reints

Photo Number: 35

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: East

Description: SSO4 sample

location.



Date: 1-7-92

Time: 1330

Photo Taken By: R. Reints

Photo Number: 36

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: East

Description: SSO4 sample



Time: 1335

Photo Taken By: R. Reints

Photo Number: 37

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: West

Description: SSO5 sample

location.



Date: 1-7-92

Time: 1335

Photo Taken By: R. Reints

Photo Number: 38

Location/ILD #: A.E. Staley

ILD005104781

Direction of Photo: West

Description: SSO5 sample



Date: 1-8-2

Time: 1130

Photo Taken By: R. Reints

Photo Number: 39

Location/ILD #: A.E. Staley ILD005104781

Direction of Photo: None

Description: Cooler of packed samples. Note chain of custody on lid of cooler.



Township Decatur R. 3E Town C. Griffy Company Sec. 7 No.20 16N Farm A.E. Staley Mfg. test Authority Wabash Railway Co. Elevation Collector

Confidential Date Drilled July 2, 1942 1100' S. line, 1150' W. line of sec

	JO. S. TING, TISO, M. Tine	<u> I sac</u>			
No.	Strata	Thickn	cts	Depth	
	otrata	Foot	_in.	Feet	In.
	Original returned to Wabash Decatur, Illinois	Rail	way	Co.,	
	Top soil Clay, yellow Clay, yellow; sand Cemented sand and blue clay very hard	2 13 30 61		2 15 45	
	Lime rock  Size mud pit length 3; width 3; depth 3; water bearing formation dat 0-106'; Wt. mud lbs. per gal water; 36" mud take from pit  No loose formation				
	NO ENVELOPE  COUNTY No. 347.				=

Elev	ration		1 1	. 1 1 1	•
Colle	ector			<del>-   -   -</del>	
	Idential Date Drilled July 3, 194				
,	<u> 1550' S. line, 1500' W. lin</u>				
No.	Strata	Thickn	C\$8	Depth	
		Feet	<u>In.</u>	Feet	<u>In.</u>
	Original returned to Wabasi	n Ry.,	De	catur	
	Clay and gravel fill	20	[ :	20	
	Yellow clay and sand	15	1	35	
	Clay, blue; sand, cemented	38	{	73	ĺ
	Sand, fine, gray, loose	9		82	ļ
	Sand, gray, dirty, tight	18		100	
	Size mud pit: length 3; width 3; depth 3 Water bearing formation data: Depth Wt. mud lbs.per gal 0-73 water 73-82 82-100			mud ta n pit	ken :
	Have 9' of water bearing so dirty, requires no mud for				
					1
	COUNTY No., 348				
	NO ENVELOPE				<u> </u>
col	Macon		7-	16 <b>n-3</b> E	

Township Décatur

т.

16

N

7

7-16N-3E COUNTY Macon ILLINOIS GEOLOGICAL SURVEY, URBANA (40430-20M)

(3-43)

Decatur

Authority Wabash Railway Co.

Company C. Griffy No. Farm A.E. Staley Mfg. Co.test No. 21

Town

ILLINOIS GEOLOGICAL SURVEY, URBANA

Town De Cult Township Long Creek Map No. 10

Company Pony Lends No. R. JE

Farm Downship, 10,7 ii. No. T.

Authority Tong Lends, Elvin 10

Elevation

Confidential Date Drilled 1941

			للبيا		
No.	Strata	Thickr	ess	Depth	
<del>-</del> -	Los 70, Lake driver blil	Feet	In.	Feet	In.
	Try Loll 2117 Clay, /cllow Clay, blue	100	; <u>;</u>	1.0 1.15	4
	Sand and provol   Clay, Uluo   Sand and provol   Clay, blue   Cand, line   Sand and provol	0.5.61.415.40	C F: -1 C. 1	99 50 51 41 50	2007
	<b>3</b>				
·					
	COUNTY N. 307			į	=
	NO ENVELOTE				F.

COUNTY MACON

INDEX NO. 1018

18-16N-3E

(A32187-20M) ILLINOIS GEOLOGICAL SURVEY, URBANA

					-	
1	35	۱_	41	'n		

<b></b>
(Internation of

#### LOG OF WATER WELL

LOG OF WATER WELL		
Property owner PARL F. GRUNEINI	— Well N	
Drilled by T.A. HANKS	Year	946
Formations passed through	Thick-	Depth of Bottom
Sail COUNTY No. 398	1	
SAIL  COUNTY No. 398  SHNOV CRAY  SHNOV CRAY  DIPONIN DIPIT  II SAND  II SAND  II SAND  II CLAY  II SAND  II		26
SHNDY GRAY CLAY	3	3/
	11	42
GIRAY CLAY	223	645
Drilled by T. A. A. A. COUNTY No. 398  Solid COUNTY No. 398  Show Chay Chay Chay Show Decision on back if necessary  If Show Chay Chay Chay Chay Chay Chay Chay Chay		65
" CLAY	2	20
11 SAND	45	745
	15	76
		ft.
Cased with 3 inch CALF //RON from 0 t	. Z	56 st.
and inch from t		ft.
		7ft.
Tested capacitygal. per min. Temperatu	re	- 5 • F.
		min.
Slot 5 Diam Length Bottom se		
Township name DECATUR Elev.		سور
Description of location LOTU 49		wp / 6
LANEGROW CLURAPD	1	1ge_3/=
Signed J. J. J. County Macon 18-16	N <u>- বি</u> চ	
Copy for Illinois State Geological Survey Index:	1 – JE	

Page 1

"ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Тор	Bottom
Yellow sand	60	0	60
Static level: 40'			
Deepened: 1942			
Pepper sand	12	60	72
Static level: 6'			
Yield: 20 gallons per minute with less than 5' drawdown.			-
			;
NO ENVELOPE			=

-			
CO	M	-	NY

Homewood Fishing Club FARM

NO.

COUNTY NO. 619 DATE DRILLED

V.H. Moore, State Water Survey AUTHORITY

630' est. Topo Map ELEVATION

700' N line, 200' E line of NE LOCATION

MACON COUNTY

18-16N-3E

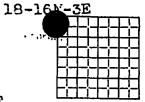
company Tony Lentz Horine, Earl B.

DATE DRILLED 1947 AUTHORITYTony Lentz

COLLECTOR **ELEVATION**  NO.

NO.

MM NE



Thickness Depth No. Strata Feet ln. Feet Ìn. E. William St. Rd., Decatur, Ill. Raceland Add'n. Yellow clay 0-6 14 Yellow sand 23 7 Yellow clay 27 8 Drift 34 3 Dark blue clay 8 36 Green clay 73 3 Blue clay 76 Fine sand 86 Sand and gravel

COUNTY No. 400

NO ENVELOPE

COUNTY Macon SAMPLE SET NO. (21169-20M-9-46) 2 18-16N-3E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Town Decatur

Township Decatur

R. 3 E

Company

No. T.

FarmA.E.Staley Mfg. Co.test No.10 16N

Authority Wabash Railway Co.

Elevation

Confidential Date Drilled 1942

Collector

750' from S. line, 1050' from W. line of sec.

750' from S. line, 1050' from	<u>W• 11</u>	<u>ne </u>	or 80c.	
No. O 1 ./- Strata	Thickr	1688	Depth	
No. Co. No. 402 <sup>Strata</sup>	Feet	In.	Feet	in.
Original returned to Wabash On lake shore by Becker und			Decati	r .
Sand, yellow Clay	4 10		4 14	
Sand, yellow, clay showing Gray sand and clay, boulder Sand, gray, hard; limerock			27 32	
at 39	7		39	
No. 11, 800' from S. line,	1100'	fro	m W. 11	ne
Sand, yellow Clay, sandy Sand, yellow Sand, gray, packed, clay	10 13		4 14 27	
showing Co. No. 403	11	6	38	6
No. 12, 200' from S. line, S end E side B & O parking pumping station				ne
Cinder fill and thrash Sand, grave and clay Sand, brown, fine gravel an	27 5 d		27 32	
clay Sand, fine, gray, packed,	8.		40	
mucky	13	6	53	6
COUNTY No. 404 NO	ENVEL	OPE		

Coli	ector		-	<del>- - </del> -		
con 50	dential Date Drilled 1942 from E.	_ 144	للا			
			1089			
No.	Strata	Foot	In.	Feet	In.	
	N. center of Mosher tract		{			
	Clay, yellow	6		6		
	Clay, blue, bard	12	}	18	1	
	Sand, gray, fine, gravel ar					
	clay, hard	18		36	]	
	Sand, fine, gray, and clay,			4.4		
	bard	8		44		
		ĺ			1	
		1				
		ļ			ì	
			l i			
		 			1	
					1	
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					}	
					İ	
	COUNTY NO. HID.	Ì				
	0001111107.7.0	}	} }			
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					1	
	ŅO ENVELOPE					
					<u> </u>	

Township Docatur .

No.

COUNTY Macon

18-16N-3E

COUNTY MACON

Town

Company

Decatur

Farm A.E. Staley Mfg. Co. TestNo. 18 16N Authority Wabash Railway Co., Decatur

18-16N-3E

R. 3E

Sec.

18

Decatur Township Decatur Map No. Company L. R. Burt R. 3E FarmSpence Tellogg & Sons, Enc.
Authority L. R. Burt Sec. 16 7 Elevation N Collector Date Drilled 1941 Confidential

· No.	COUNTY No. 374.	Thickn	ess	Depth	
		Feet	ln.	Feet	In.
	WELL #5 40' N. line, 500' E. line Top soil Clay, yellow Clay, blue Clay, tough, blue Sand, some gravel Sand and gravel	5 10 25 25 10		5 15 40 65 75 94	,
	Clay, blue	5		99	
	10" diameter 94' deep 15' Armco str #125 slot WELL #6				
	200' N. line, 450' E. line	:			
	Top soil Clay, yellow Clay, blue Sand and gravel	5 10 47 26		5 15 62 88	
	10" diameter 88' deep 15! Armco str. 5' #100 slot	, 101	#12	5 slot	1
	S.S.# 17739 COUNTY No 3.4.5.			,	- :
	NO ENVELOPE	·			

COUNTY MACON

INDEX NO. 1007 7-16N-3E

DRILL RECORD

(12880--20M) ILLINOIS GEOLOGICAL SURVEY, URBANA



### GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property o	ner <u>ADM Corn Sweetene</u>	rs	Well No	
	6 Faries Parkway Deca			
	sch, Wayne A.			
	139239			
		_ 13. County	Macon	
at depth	toft.	Sec.	<del>7</del> - Γ	TTM
14. Screen: Dia	min. ft. Slot	IWP.	16 N -	
Length		Elev.		
			L	البلل
15. Casing and	-	<del>-,</del> -	E NE NE	
Diam. (in.)	Kind and Weight	From (ft)	To (ft)	
	elft. below cas nd level. Pumping leve hours.	•	-	
18. Formati	ons passed through		Thickness	Bottom
SS #6	66608 (01-951)		0	
top s	oil		2	7
ргонг	clay		23	25
rusty	brown sand		4	29
blue	clay		5	34
fine	sand		1	35
ргомп	clay		18	53
fine	sand		2	55
blue	clay		2	57
Industrial				

12-115-22071-00 Macon

07-16N-03E

LOG OF WATER WELL

Property owner R.E. FUAK	-Well No	o
Drilled by TIPI HANKS	Year	746
Formations passed through	Thick- ness	Depth of Bottom
8012	1	/
YELLOW CLAY	19	20
Enry 11	21	41
GREFN	7	49
4512 Nov. 841101 11	ン	50
YELLOW I TO CAPALLER	137	8.0
61111 "	2	70
COUNTRY		
[COUNTY NO 3.38]		
Finished in San at San	to <u> </u>	<i>o</i> `
Cased with 3 inch G ALA 113 911 from 0	to	<i>ft.</i>
and 3 inch from	to	ft.
Size hole below easinginch. Static level from sur	f	9_ft.
Tested capacitygal. per min. Temperatu	rc	
Water lowered to 6 ft in. in h	rs	min.
Length of test hrs. Finn. Screen	12	
Slot Diam 2 Length Bottom se	et at	10 ft.
Township name DI= CI: TU! Elev   [Show location in Sec	<del></del> -	ec
10T #1	+1	16N
Description of location		wp/o/
W/25M/T (PD).	R	ge. 5/2
Signed /-/ County Macor 7-16F	L	
Conv. for Illinois State Geological Survey Index:	مندں- ،	

to a C. M. o. C. ripor trans. C. me to a R. Y. Lander and hope in teres that every last every con-

Decatur Town TOWNSHIP Whitmore COMPANY L. R. Burt

Spencer Kellogy & Sonsyo Inc. T. AUTHORITY L. R. Burt, Decatur, Ill.

ELEVATION COLLECTOR

CONFIDENTIAL 200' N. line

N DATE DRILLED March 1940

===	200' N. line, 200' E. line			<u> </u>	
No	STRATA	STRATA THICKNESS		DEPTH	
	Top soil, black Clay, yellow Yellow sand and gravel	5 23 <b>3</b>	IN.	5 28 31	In.
,	Clay, blue, tough Clay, blue, soft, with sand and gravel Sand, blue, some gravel Sand, blue, and gravel Coarser sand and gravel, bl Coarse sand and gravel Clay, blue	20 5 10		45 65 70 80 90 96	
	10" well 78' of casing  440 gal. per min. 8 hrs. Permanent pump installed wi capacity of 120 gal. per m drawdown - 4'  9%"0.D. Strainer 2/'9" 10' of 100 slot at bottom 10' of 80' slot at top  S.S.# 17737  NO ENVELOPE COUNTY ME COM-	in.,			
	NO ENVELOPE COUNTY No. 34				

Macon COUNTY

DRILL RECORD

INDEX NO. 1007

(A6572--15 M--10-39)

ILLINOIS GEOLOGICAL SURVEY, URBANA

7-16N-3E

MAP No. 10

SEC.

R. 3E

Township Decatur R. 3 E Decemp Town company C. Griffy Sec. Farm A.E. Staley Mfg. Co. test No. 28 Authority Wabash Railway Co. Elevation Collector Date Drilled July 14, 1942 Confidential 31800' from N. line. 1800' from E. line of sec. Thickness Depth No. Strata Feet in. Feet ln. Original returned to Wabash Ry. Co. Decatur Top soil 4 Clay, yellow 10 14 26 40 Sand. brown Gray sand and gravel with 23 63 clay, tight Gray sand and gravel, fairly 73 loose but showing some clay comented sand and clay, very 24 97 hard Size mud pit: length 4; width 4; depth 3 Water bearing formation data: Depth Wt.mud per gal. In mud taken from pit 8" 0-65 water 8" 65-75 water 411 75-97 water Formation from 63-73' is water bearing COUNTY No. 355 NO ENVILLE

7-16N-3E

(3-43)

R. 3 E Decatur Township Decatur Town Company C. Griffy Sec. FarmA.E.Staley Mfg. Co.test No. 29 16N 7 Wabash Railway Co. Authority Elevation Collector

Con	indential Date Drilled July 15, 19	943				
	O' from N. line, 1300' from	Thickr		Depth	<del>A</del> th	
No.	Strata		ln.	Feet	In.	
	Original returned to Wabash	Ry.	Co.	Decati	ur	
	Top soil	3		3		
	Clay, yellow	14		17	Ì	
	Sand, brown	18		35		
	Sand and clay, dirty, but not packed	45		80		
	Cemented sand and clay,	-	}			
•	hard	16		96		
	Size mud pit: length 4; width 4, depth 32				,	
-	Water bearing formation dat Depth Wt. mud per gal. Mu 0-50 water 50-96 water	a: d tak	en f 2' 18"	rom pi	5	
•	Test boring No. 29 is 12' of N. 35th St. and 355' S. of Ferries Parkway St.		ter	r		
	COUNTY No. 356					
	ra mulian				<b>!</b>	

COUNTY Macon

7-16N-3E

(40430-20M)

ILLINOIS GEOLOGICAL SURVEY, URBANA

(3-43)

ILLINOIS GEOLOGICAL SURVEY, URBANA (40430-20M)

COUNTY Macon

Township Decatur R. 3E Town company C. Griffy Sec. Farm A.E. Staley Mfg. Co. test No. 24 7 Authority Wabash Railway Co. Elevation Collector Date Drilled July 9, 1942 Confidential 2350' from S. line. 2600' from E. line of sec Thickness Depth No. Strata Foot Feet In. ln. Original returned to Wabash Railway Decatur Cinders 10 10 Sand, brown 15 25 Sand, fine, gray, packed 15 40 Band and gravel, packed, showing of blue clay 33 73 Sand and gravel, loose. showing of clay 80 Cemented sand and clay, 103 23 very hard Size mud pit: length 3: width 3: depth 3 Surface water kept coming into dur pit so we have no check on amount of water absorbed by formation, although there was no format tion loose enough to absorb water except 73 to 80 ft. and that had showing of clay

COUNTY No. 351		
NO ENVELOPT		
NO ENVELOPL		

COUNTY 7-16N-3E Macon ILLINOIS GEOLOGICAL SURVEY, URBANA

Town	Decatur	Township Docatur			R	. 3	E	
Company	C. Griffy	No.	т.	$\Box$				Sec.
Farm A .	E.STaley Mf	y. Co.test No.25	16	<u></u>		Ш		7
Authority	Wabash Rai	Lway Co.	N					
Elevation						•		
				_		-	_	

Collector July 10, 1942 Date Drilled Confidential 2300: from E. line of sec 2450' from S. line. Thickness Depth No. Strata Feet Foot ln., In. Original returned to Wabash Railway Co., Decatur, Illinois 3 Top soil 17 20 Clay, yellow Clay, blue, hard pan 25 45 Sand, gravel, and blue clay, 35 80 hard 12 92 Gravel with blue clay, soft Blue clay and gravel, very 13 105 hard Size mud pit: length 3; width 3; depth 3 Water bearing formation data: 0-1051, wt. mud lbs. per gal. water: 20" mud taken from pit Enough blue clay in formation to cause mud to get heavier as we do dowh. COUNTY No. 35 6 NO GIVE

COUNTY Macon 7-16N-3E